

PROGRAM SCHEDULE

October 20, 2011 (Thursday)						
09:00 - 09:30	Registration					
09:30 - 12:00	Session 1-A (PDCAT-11) (Chair: Jung-Sik Cho) (Room: 201)	Session 1-B (PDCAT-11) (Chair: Young-Sik Jeong) (Room: 202)	Session 1-C (PDCAT-11) (Chair: Filip Zavoral) (Room: 203)	Session 1-D (ITCS-11) (Chair: Yang hoon Kim) (Room: 204)	Session 1-E (IRoA-11) (Chair: Taeshik Shon) (Room: 206)	Session 1-F (FSTA-11) (Chair: Namje Park) (Room: 207)
12:00 - 13:30	Lunch					
13:30 - 14:40	Opening Remark (PDCAT 2011, ITCS 2011, IRoA 2011) Invited Speaking 1, (Chair: Young-Sik Jeong) Title : A Bio-Inspired Reconfigurable Communication Topology & Applications by Dr. Hamid R. Arabnia (Room: 208)					
14:40 - 14:50	Break					
14:50 - 16:00	Honam IT Exhibition 2011 Free Admission to Everyone (Kimdaejung Convention Center, Exhibition Hall 1F)					
16:00 - 16:20	Coffee Break					
16:20 - 18:00	Session 2-A (PDCAT-11) (Chair: Maria j. Martin) (Room: 201)	Session 2-B (PDCAT-11) (Chair: Jong sung Kim) (Room: 202)	Session 2-C (PDCAT-11) (Chair: Jan Vanek) (Room: 203)	Session 2-D (ITCS-11) (Chair: Hyuk jun Kwon) (Room: 204)	Session 2-E (IRoA-11) (Chair: Jaeik Cho) (Room: 206)	Session 2-F (Smartphone-11) (Chair: Kwang woo Lee) (Room: 207)
18:30 - 20:00	Conference Reception (4F Convention Hall, Kimdaejung Convention Center)					

The 12th International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT-11)
The 3rd International Conference on Information Technology Convergence and Services (ITCS-11)
The 2011 FTRA International Conference on Intelligent Robotics, Automations, telecommunication facilities, and applications(IRoA-11)

October 21, 2011 (Friday)						
09:00 - 09:30	Registration					
09:30 - 12:00	Session 3-A (PDCAT-11) (Chair: Jung-Sik Cho) (Room: 201)	Session 3-B (PDCAT-11) (Chair: Sang-Soo Yeo) (Room: 202)	Session 3-C (PDCAT-11) (Chair: Manoranjan Dash) (Room: 203)	Session 3-D (ITAC-11) (Chair: Jang Woo park) (Room: 204)	Session 3-E (PCT-11) (Chair: Dong-oh Kang) (Room: 206)	Session 3-F (PDCAT-11) (Chair: Min Choi) (Room: 207)
12:00 - 13:20	Lunch					
13:20 - 14:20	Invited Speaking 2, (Chair: Hang-Bae Chang) Title : Fault-Tolerant Resource Allocation: Models, Challenges and Solutions by Dr. Hong Shen (Room: 208)					
14:20 - 14:30	Break					
14:30 - 15:30	Invited Speaking 3, (Chair: Hyun Sung Kim) Title : Space-time-frequency coding for next generation MIMO applications by Dr. Hsiao-Hwa Chen (Room: 208)					
15:30 - 15:40	Break					
15:40 - 16:40	Invited Speaking 4, (Chair: Hong Shen) Title : Ubiquitous/Pervasive Intelligence: Visions and Challenges by Dr. Laurence T. Yang (Room: 208)					
16:40 - 16:50	Coffee Break					
16:50 - 18:30	Session 4-A (PDCAT-11) (Chair: Sung-Woon Lee) (Room: 201)	Session 4-B (PDCAT-11) (Chair: Yidong Li) (Room: 202)	Session 4-C (ITCS-11) (Chair: Hong joo Lee) (Room: 203)	Session 4-D (IRoA-11) (Chair: T Asokan) (Room: 204)	Session 4-E (PCT-11) (Chair: Dong-oh Kang) (Room: 206)	Session 4-F (PDCAT-11) (Chair: Seung-Ho Lim) (Room: 207)
19:00 - 21:00	Banquet (Holiday Inn Hotel)					

October 22, 2011 (Saturday)						
09:00 - 09:30	Registration					
09:30 - 12:00	Session 5-A (PDCAT-11) (Chair: Min Choi) (Room: 201)	Session 5-B (PDCAT-11) (Chair: Jung-Sik Cho) (Room: 202)	Session 5-C (ITCS-11) (Chair: Yang Sun Lee) (Room: 203)	Session 5-D (PDCAT-11) (Chair: Seung-Ho Lim) (Room: 204)	Session 5-E (ITMUE-11) (Chair: Sang Oh Park) (Room: 206)	Session 5-F (ITCS-11) (Chair: Jong sung Kim) (Room: 207)
Note	<ol style="list-style-type: none"> 1. A paper presentation should be made by one of authors of the paper, during a 25 minute time slot (20 minutes for the presentation itself and 5 minutes for Q/A). 2. All speakers of each session should meet the session chair at its room 10 minutes before the session. 3. We will prepare Windows XP laptops running the Adobe Reader and Microsoft Office 2003 for paper presentations. Please prepare your presentation files for being read by those applications. 4. If you have any query, please feel free to contact the PDCAT-11, ITCS-11, IRoA-11 (gwangjucon@ftrai.org). 					

Keynote and Session Time Changing

Please note that

Keynote Session 2 ~ 4 has been changed
Session 4-A ~ Session 4-F has been changed

DETAILED SCHEDULE FOR PDCAT 2011

October 20, 2011 (Thursday)

09:00 - 09:30 Registration

09:30 - 12:00 [Session 1-A: PDCAT 2011](#)

(Room: 201)

(Chair: Jung-Sik Cho)

- **A Fast Incremental Spectral Clustering for Large Data Sets**
Tengteng Kong, Hong Shen, Ye Tian
- **Dynamically Accessing Packet Header Fields at High-Speed**
Ralph Duncan, Peder Jungck, Kenneth Ross
- **Providing Access Control through Program Transformation**
Xinfeng Ye, Chen Wang
- **Guaranteed Scheduling for (m,k)-firm Deadline-Constrained Real-time Tasks on Multiprocessors**
Yeonhwa Kong, Hyeonjoong Cho
- **A Distributed Task-migration Scheme for Mesh-based Chip-multiprocessors**
Mehdi Modarressi, Hossein Yaghoubi, Hamid Sarbazi-Azad

09:30 - 12:00 [Session 1-B: PDCAT 2011](#)

(Room: 202)

(Chair: Young-Sik Jeong)

- **Network Threat Assessment based on Alert Verification**
Rongrong Xi, Xiaochun Yun, Shuyuan Jin, Yongzheng Zhang
- **jMigBSP: Object Migration and Asynchronous One-Sided Communication for BSP Applications**
Lucas Graebin, Rodrigo Righi
- **Computation Pattern Driven Reuse of Manual Optimizations for GPGPUs**
Shixiong Xu, Dongni Han, Li Chen
- **Reference Metadata Extraction from Scientific Papers**
Zhixin Guo, Hai Jin

09:30 - 12:00 **Session 1-C: PDCAT 2011**

(Room: 203)

(Chair: Filip Zavoral)

- **A Social Network-based Information Dissemination Scheme**
Xinfeng Ye, Yanfeng Li
- **Resistance against malicious collectives in BubbleTrust**
Miroslav Novotny, Filip Zavoral
- **XunleiProbe: A Sensitive and Accurate Probing on a Large-Scale P2SP System**
Yong Zhao, Zhibin Zhang, Li Guo, Binxing Fang
- **A Runtime Fault detection Method for HPC cluster**
Wu Linping, Luo Hongbing, Zhan JianFeng, Meng Dan
- **An Experimental Study on Memory Allocators in Multicore and Multithreaded Applications**
Tais Ferreira, Rivalino Matias, Autran Macedo, Lucio Borges

12:00 - 13:30 **Lunch**

13:30 - 13:40 **Opening Remark and Invited Talk**

(Room: 208)

Prof. Young-Sik Jeong, Wonkwang University, Korea

13:40 - 14:40 **Invited Speaking 1 : PDCAT 2011**

(Room: 208)

(Chair: Young-Sik Jeong)

A BIO-INSPIRED RECONFIGURABLE COMMUNICATION TOPOLOGY & APPLICATIONS

Dr. Hamid R. Arabnia

14:40 - 14:50 **Break**

14:50 - 16:00 **Joint Exhibition**

(Exhibition Hall 1F)

Honam IT Exhibition 2011

Free Admission to Everyone

16:00 - 16:20 Coffee Break

16:20 - 18:00 [Session 2- A: PDCAT 2011](#)

(Room: 201)

(Chair: Maria j. Martin)

- **Data Flow Error Recovery with Checkpointing and Instruction-level Fault Tolerance**
Lei Xiong, Qingping Tan
- **Access Pattern Based Re-reference Interval Table for Last Level Cache**
Yu Baozhong, Hu Yifan, Ma Jianliang, Chen Tianzhou
- **A multi-constraint preemption algorithm for parallel job scheduling**
Luo Hongbing, Wu Linping, Wang Wei

16:20 - 18:00 [Session 2-B: PDCAT 2011](#)

(Room: 202)

(Chair: Jongsung Kim)

- **Performance Analysis of Control Charts Techniques Applied to IP Traffic Forecasts**
Ana Maria M. Carvalho, Rivalino Matias, Paulo R. M. Maciel, Lucio Araujo, Aufran Macedo
- **Evaluation of Compound System Calls in the Linux Kernel on Physical and Virtual Machines**
Elder Vicente, Rivalino Matias, Aufran Macedo, Lucio Araujo
- **Diffusion Wavelets-based Analysis on Traffic Matrices**
Hui Tian, Hong Shen, Yingpeng Sang

16:20 - 18:00 [Session 2-C: PDCAT 2011](#)

(Room: 203)

(Chair: Jan Vanek)

- **Dynamic thread partition algorithm based on sharing data on CMP**
Deng Zhou, Ye Tian, Hong Shen
- **A Framework for Scheduling Virtual Machines to Support Real-time Services for U-Life Care**
Nguyen Trung Hieu, Jin Wang, Sungyoung Lee, Young-Koo Lee
- **Efficient Hierarchical Agglomerative Clustering Algorithms on GPU Using Data Partitioning**
Arul Shalom S. A., Manoranjan Dash

18:30 - 20:00 Conference Reception (Convention Hall 4th floor)

October 21, 2011 (Friday)

09:00 - 09:30 Registration

09:30 - 12:00 [Session 3-A: PDCAT 2011](#)

(Room: 201)

(Chair: Jung-Sik Cho)

- **An Empirical Study of the Beezone System**
Shuyu Liu, Zhengbiao Guo, Zhitang Li, Hao Tu
- **P2P DHT based on a Contracted Star Graph**
Satoshi Fujita
- **The Multidimensional Scaling and Barycentric Coordinates based Distributed Localization in Wireless Sensor Networks**
Cuiqin Hou, Yibin Hou, Zhangqin Huang, Huibing Zhang
- **Comparative study of algorithms for mining association rules: traditional approach versus multi-relational approach**
Carlos Roberto Valencio, Fernando Takeshi Oyama, Paulo Scarpelini Neto, Rogeria Cristiane Gratao de Souza

09:30 - 12:00 [Session 3-B: PDCAT 2011](#)

(Room: 202)

(Chair: Sang-Soo Yeo)

- **Grid based Analysis Toolkit for Partial Wave Analysis**
Zhi Yang, Richard T. Jones, Changqin Yin
- **Fast Estimation of Gaussian Mixture Model Parameters on GPU using CUDA**
Lukas Machlica, Jan Vanek, Zbynek Zajic
- **Optimizing Web Browser on Many-Core Architectures**
Lingjun Fan, Weisong Shi, Shibin Tang, Dongrui Fan, Chenggang Yan
- **Biprominer: Automatic Mining of Binary Protocol Features**
Yipeng Wang, Zhibin Zhang, Jiao Meng, Li Guo
- **Application of ontologies in peer-to-peer database with routing queries based on Ant Colony Algorithm**
Carlos Roberto Valencio, Leandro Rincon Costa, Carlos Henrique El Hetti Laurenti, Adriano Mauro Cansian

09:30 - 12:00 [Session 3-C: PDCAT 2011](#)

(Room: 203)

(Chair: Manoranjan Dash)

- **Anonymizing Hypergraphs with Community Preservation**
Yidong Li, Hong Shen
- **Performance Evaluation of OpenMP Constructs and Kernel Benchmarks on a Loongson-3A Quad-Core SMP System**
Qiuming Luo, Chang Kong, Ye Cai, Gang Liu
- **Parallel Immune Algorithm for Lung Cancer Detection in X-Ray Images Based on Object Shared Space**
PENG Gang, YANG Xiong, LIU Li
- **Adaptive Meta-Data Management and Flexible Consistency in a Distributed In-memory File-System**
Kim-Thomas Rehmman, Serdar Dere, Michael Schoettner
- **Dacooop: Accelerating data-iterative applications on Map/Reduce cluster**
Yi Liang, Guangrui Li, Lei Wang, Yanpeng Hu

09:30 - 12:00 [Session 3-F: PDCAT 2011](#)

(Room: 207)

(Chair: Min Choi)

- **A logical approach to the management of object identifiers in non-conventional database management systems**
Carlos Roberto Valencio, Andre Cid Ferrizzi, Fabio Renato de Almeida, Juliano Augusto Carreira, Mario Luiz Tronco
- **An application level approach for proactive process migration in MPI applications**
Ivan Cores, Gabriel Rodriguez, Patricia Gonzalez, Maria J. Martin
- **Secure E-Commerce Based on Distributed Processing**
KUN PENG
- **Prevent DNS Cache Poisoning Using Security Proxy**
Lejun Fan, Yuanzhuo Wang, Jinming Li, Xueqi Chen
- **Data Gathering for Periodic Sensor Applications**
Khaled Almi'ani, Mohammed Aalsalem, Rafeeq Al-Hashemi

12:00 - 13:20 **Lunch**

13:20 - 14:20 **Invited Speaking 2 : ITCS 2011**

(Room: 208)

(Chair: Hang-Bae Chang)

Fault-Tolerant Resource Allocation: Models, Challenges and Solutions

Dr. Hong Shen

14:20 - 14:30 Break

14:30 - 15:30 **Invited Speaking 3: ITCS 2011**

(Room: 208)

(Chair: Hyun Sung Kim)

Space-time-frequency coding for next generation MIMO applications

Dr. Hsiao-Hwa Chen

15:30 - 15:40 Break

15:40 - 16:40 **Invited Speaking 4: PDCAT 2011**

(Room: 208)

(Chair: Hong Shen)

Ubiquitous/Pervasive Intelligence: Visions and Challenges

Dr. Laurence T. Yang

16:40 - 16:50 Coffee Break

16:50 - 18:30 **Session 4-A: PDCAT 2011**

(Room: 201)

(Chair: Sung-Woon Lee)

- **Mobile Element Path Planning for Gathering Transit-time Constrained Data**
Khaled Almi'ani, Anastasios Viglas, Mohammed Aalsalem
- **CHMasters: A Scalable and Speed-efficient Metadata Service in Distributed File System**
Min Xu, Junrui Zhou, Wei Zhou, Hong An
- **Mobile-Element Data Gathering Scheme**
Mohammed Aalsalem
- **Phase Map Generation for Phase Shift Moire using CUDA**
Sudhakar Sah, YoungJun Roh, KyoungSeop Chang, DaeHwa Jeong

16:50 - 18:30 [Session 4-B: PDCAT 2011](#)

(Room: 202)

(Chair: Yidong Li)

- **Fast Fault-Tolerant Resource Allocation**
Kewen Liao, Hong Shen
- **A Task Base Sensor_Centric Model for Overall Energy Consumption**
Najmeh Kamyabpour, Doan B. Hoang
- **Leakage Aware Scheduling for Maximum Temperature Minimization**
Jinming Yue, Tiefei Zhang, Licheng Yu, Tianzhou Chen
- **MapReduce Implementation of Prestack Kirchhoff Time Migration (PKTM) on Seismic Data**
Nikzad Babaii Rizvandi, Ali Javadzadeh Boloori, Najmeh Kamyabpour, Albert Zomaya

16:50 - 18:30 [Session 4-F: PDCAT 2011](#)

(Room: 207)

(Chair: Seung-Ho Lim)

- **Optimizing MPI Alltoall Communication of Large Messages in Multicore Clusters**
Qiang Li, Zhigang Huo, Ninghui Sun
- **Architecture for peer-to-peer databases with routing queries using Ant Colony Algorithm and semantic support**
Carlos Roberto Valencio, Leandro Rincon Costa, Paulo Scarpelini Neto, Adriano Mauro Cansian
- **Optimization of Algorithm to Identification of Duplicate Tuples Through Similarity Phonetic Based on Multithreading**
Tiago Luis Andrade, Rogeria Cristiane Gratao de Souza, Maurizio Babini, Carlos Roberto Valencio
- **Multi-relational algorithm for mining association rules in large databases**
Carlos Roberto Valencio, Fernando Takeshi Oyama, Fernando Tochio Ichiba, Rogeria Cristiane Gratao de Souza

19:00 - 21:00 **Banquet (Holiday Inn Hotel)**

October 22, 2011 (Saturday)

09:00 - 09:30 Registration

09:30 - 12:00 [Session 5-A: PDCAT 2011](#)

(Room: 201)

(Chair: Min Choi)

- **Optimization of query results in peer-to-peer database supported by semantics**
Carlos Roberto Valencio, Leandro Rincon Costa, Juliano Augusto Carreira, Mario Luiz Tronco
- **Modeling and Analysis of Email Worm Propagation Based on Stochastic Game Nets**
Min Yu, Yuanzhuo Wang, Li Liu, Xueqi Cheng
- **Handover Delay in Mobile WiMAX: A Simulation Study**
Bhaskar Ashoka, David Eyers, Zhiyi Huang
- **Analysis of Parameters Contributing Performance and Coverage of Mobile WiMAX with Mix Traffic**
Fatima Furqan, Doan Hoang
- **Spatial Clustering Applied to Health Area**
Carlos Roberto Valencio, Camila Alves de Medeiros, Fernando Tochio Ichiba, Rogeria Cristiane Gratao de Souza
- **SmartAgents: A Scalable Infrastructure for Smart Car**
Jie Sun, Yongping Zhang, Jianbo Fan

09:30 - 12:00 [Session 5-B: PDCAT 2011](#)

(Room: 202)

(Chair: Jung-Sik Cho)

- **Green Scheduling: A Scheduling Policy for Improving the Energy Efficiency of Fair Scheduler**
Tao Zhu, Chengchun Shu, Haiyan Yu
- **Communication-aware Task Partition and Voltage Scaling for Energy Minimization on Heterogeneous Parallel Systems**
Guibin Wang, Wei Song
- **Adaptive Service Migration in Wireless Sensor Networks**
Stefan Werner, Christoph Reinke, Sven Groppe, Volker Linnemann
- **Investigation and Survey of Secret Sharing in Verifiable Distributed Systems**
KUN PENG
- **A Fairness Spatial TDMA Scheduling Algorithm for Wireless Sensor Network**
Zhiqi Wang, Fengqi Yu, Liqiang Tao, Zusheng Zhang

- **Automatic Energy Status Controlling with Dynamic Voltage Scaling in Power-aware High Performance Computing Cluster**
Yuansheng Cheng, Yu Zeng

09:30 - 12:00 [Session 5-D: PDCAT 2011](#)

(Room: 204)

(Chair: Seung-Ho Lim)

- **Translating Synchronous Systems to Data-Flow Process Networks**
Daniel Baudisch, Jens Brandt, Klaus Schneider
- **A Segmented approach for DAG scheduling in Heterogeneous Environment**
Saima Gulzar, Ehsan Munir, Wasif Nisar
- **Hash based Byzantine Fault Tolerant Agreement with Enhanced View Consistency**
Poonam Saini, Awadhesh Singh
- **Performance Evaluation of Quality of VoIP in WiMAX and UMTS**
Sheetal Jadhav, Haibo Zhang, Zhiyi Huang
- **A Propagation Model for Social Engineering Botnets in Social Networks**
Shuhao Li, Xiaochun Yun, Zhiyu Hao, Xiang Cui, Yipeng Wang
- **An XML Data Placement Strategy for Distributed XML Storage and Parallel Query**
Jing Zhang, Bo Lang, Yawei Duan
- **A Cost-based Resource Scheduling Paradigm in Cloud Computing**
Zhi Yang, Changqin Yin, Yan Liu